1978-341-0136

T-641 P.05/09 F-500

@PFDesktop\::ODMA/MHODMA/HBSR05;iManage;469871;1 DIT/IMM/ps/(de) PATENT APPLICATION DOCKET NO · 2479 2028-000

April 28, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Bing Chiang, James A. Proctor, Jr. and Kenneth M. Gainey

Application No.:

09/774,534

Group Art Unit:

2817

Filed:

January 31, 2001

Examiner:

Kimberly E. Glenn

Confirmation No.:

3250

Title:

ELECTRONIC PHASE SHIFTER WITH ENHANCED PHASE SHIFT PERFORMANCE

VIA HAND DELIVERY

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Office of Petitions Crystal Plaza 4 Suite 3C23 2201 South Clarke Place Arlington, VA 22202

(Filed after payment of issue fee)

WITHIE	vii, vii =====
Sir:	
This In	uformation Disclosure Statement is submitted: under 37 CFR 1.129(a), or (Fust/Second submission after Final Rejection)
[X]	under 37 CFR 1.97(b), or (Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application, or before the maining date of a first office action on the merits in a non-provisional application, including CPA, or a Request for Continued Examination).
[]	under 37 CFR 1.97(c) together with either: [] a Statement under 37 CFR 1.97(e), as checked below, or [] a \$180.00 fee under 37 CFR 1.17(p), or (After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
[]	under 37 CFR 1.97(d) together with: [] a Statement under 37 CFR 1.97(e), as checked below, and [] a \$180.00 fee under 37 CFR 1.17(p), or (Fited after final action or nonce of allowance, whichever occurs first, but on or before payment of the usue fee)
[]	under 37 CFR 1.97(i): Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

-2-

Statem		er 37 CFR 1.97(e)
]		em of information contained in this Information Disclosure Statement was first cited in amunication from a foreign patent office in a counterpart foreign application not more see months prior to the filing of this Information Disclosure Statement; or
[]	commu knowle	n of information contained in this Information Disclosure Statement was cited in a nication from a foreign patent office in a counterpart foreign application, and, to the dge of the undersigned, after making reasonable inquiry, no item of information contained information disclosure statement was known to any individual designated in 37 CFR more than three months prior to the filing of this Information Disclosure Statement.
Staten	ent Und	ler 37 CFR 1.704(d) (Patent Term Adjustment) Applies to original applications (other than design) filed on or after May 29, 2000
[]	commi	em of information contained in the Information Disclosure Statement was cited in a unication from a foreign patent office in a counterpart application and this communication treceived by any individual designated in § 1.56(c) more than thirty days prior to the of the Information Disclosure Statement.
[X]	Enclos	ed herewith is form PTO-1449:
	[X]	Copies of the cited references are enclosed.
	•	Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
	[]	Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
	[]	The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
	[]	The "concise explanation" requirement (non-English references) for reference(s) [under 37 CFR 1.98(a)(3) is satisfied by:
		[] the explanation provided on the attached sheet.
		[] the explanation provided in the Specification.
		[] submission of the enclosed International Search Report.
		submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
		[] the enclosed English language abstract.

09/774,534

-3-

U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: [] U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: [] U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: [] Examiner Date [] A copy of each above-cited application, including the current claims, is enclosed. [] A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication. It is requested that the information disclosed herein be made of record in this application. Method of payment: [] A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed. [] Please charge Deposit Account 08-0380 in the amount of S[]. A copy of this Statement is enclosed. [X] Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380. Respectfully submitted, HAMILTON, BROOK, SMITH & REYNOLDS, P.C. By Joseph M. Maraia Registration No.: 55,926 Telephone: (978) 341-0036 Facsimile: (978) 341-0036 Concord, MA 01742-9133 Dated: \$\frac{1}{2} \frac{1}{2} \f	1	Applic	ant requests that the following r	on-published pending applic	ations be considered:
U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: [] U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: [] Examiner Date [] A copy of each above-cited application, including the current claims, is enclosed. [] A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication. It is requested that the information disclosed herein be made of record in this application. Method of payment: [] A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed. [] Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is enclosed. [X] Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380. Respectfully submitted, HAMILTON, BROOK, SMITH & REYNOLDS, P.C. By Registration No.: 55,926 Telephone: (978) 341-0136 Concord, MA 01742-9133 Dated: 1 (978) 341-0136	Ecquiner's initials		TIG Danie Angliantian No. (1 by linventor(s)1 filed [). Docket No.: []
U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: [] Examiner				_	•
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accompanying Reply. A copy of this Statement is enclosed. [National Please charge Deposit Account 08-0380 in the amount of \$[Metho	od of pa	syment:		
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Joseph M. Maraia Registration No.: 55,926 Telephone: (978) 341-0036 Facsimile: (978) 341-0136 Concord, MA 01742-9133 Dated: (478) 341-0136					
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PTO-1449 REPRODUCED

VIA HAND DELIVERY

	•		Sheet lof?
ATTORNEY DOCKET NO 2479.2028-000		PLICATION NO /774,534	
FIRST NAMED INVENTOR Bing Chiang	,	FILING DATE January 31, 2001	

SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION

April 28, 2004

(Use several sheets if necessary)

Bing Chiang January 31, 2001

EXAMINER CONFIRMATION NO GROUP
Kimberly E. Glenn 3250 2817

	U.S. PATENT DOCUMENTS			
EXAM- INER INI- TIAL	REP NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	ΑD	4,539,535	09-03-1985	Miller, et al.
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Sheet 2 of 2

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. APPLICATION NO 2479.2028-000 09/774,534			
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION	FIRST NAMED INVENTOR FILING DATE Bing Chiang January 3		1, 2001	
April 28, 2004 (Use several sheets if necessary)	EXAMINER Kimberly E. Glenn	CONFIRMATION NO. 3250	GROUP 2817	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AR	Birks, T. A., et al., Four-Port Fibre Frequency-Shifter with a Null Taper Coupler [online], 1994 [retrieved on 2004-04-28]. Retrieved from the Internet <url:http: 1994="" birks="" birks.html="" ofg="" publications="" rj="" www.ecs.soton.ac.uk="">.</url:http:>	
	AS	Ellinger, F., "Compact Reflective-Type Phase Shifter MMIC for C-Band Using a Lumped-Element Coupler," IEEE Transactions on Microwave Theory and Techniques, 49(5):913-917 (2001).	
	AT	"RF Directional Couplers and 3dB Hybrids Overview" No date given.	
	AŬ	Akkaraekthalin, P., et al., "Conductor-Backed Coplanar Waveguide Directional Coupler and Its Use for a Variator-Tuned 90' Phase Shifter," King Monkut's Institute of Technology North Bangkok	
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